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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/741,106

DATE: 12/20/2001

TIME: 11:30:48

Input Set : N:\Crf3\RULE60\09741106.txt

Output Set: N:\CRF3\12202001\I741106.raw

## SEQUENCE LISTING

## 4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Innis, Michael

7 Creasey, Abba

9 (ii) TITLE OF INVENTION: Chimeric Proteins

11 (iii) NUMBER OF SEQUENCES: 37

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: Chiron Corporation

15 (B) STREET: 4560 Horton St.

16 (C) CITY: Emeryville

17 (D) STATE: CA

18 (E) COUNTRY: USA

19 (F) ZIP: 94608

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk

23 (B) COMPUTER: IBM PC compatible

24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30B

27 (vi) CURRENT APPLICATION DATA:

C--&gt; 28 (A) APPLICATION NUMBER: US/09/741,106

C--&gt; 29 (B) FILING DATE: 12-Dec-2000

30 (C) CLASSIFICATION:

31 (vii) PRIOR APPLICATION DATA:

32 (A) APPLICATION NUMBER: 08/286,521

33 (B) FILING DATE: 1994-08-05

35 (viii) ATTORNEY/AGENT INFORMATION:

36 (A) NAME: Savereide, Paul B.

37 (B) REGISTRATION NUMBER: 36,914

38 (C) REFERENCE/DOCKET NUMBER: 0990.001

40 (ix) TELECOMMUNICATION INFORMATION:

41 (A) TELEPHONE: 510-601-2585

42 (B) TELEFAX: 510-655-3542

45 (2) INFORMATION FOR SEQ ID NO: 1:

47 (i) SEQUENCE CHARACTERISTICS:

48 (A) LENGTH: 51 amino acids

49 (B) TYPE: amino acid

50 (C) STRANDEDNESS: single

51 (D) TOPOLOGY: linear

53 (ii) MOLECULE TYPE: peptide

58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

60 Cys Ala Phe Lys Ala Asp Asp Gly Pro Cys Lys Ala Ile Met Lys Arg

61 1 5 10 15

63 Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu Phe Ile Tyr Gly

64 20 25 30

66 Gly Cys Glu Gly Asn Gln Asn Arg Phe Glu Ser Leu Glu Cys Lys

67 35 40 45

69 Lys Met Cys

ENTERED

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70          50
72 (2) INFORMATION FOR SEQ ID NO: 2:
74   (i) SEQUENCE CHARACTERISTICS:
75       (A) LENGTH: 51 amino acids
76       (B) TYPE: amino acid
77       (C) STRANDEDNESS: single
78       (D) TOPOLOGY: linear
80   (ii) MOLECULE TYPE: peptide
85   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
87   Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu Leu Arg
88   1          5          10          15
90   Tyr Tyr Tyr Asp Arg Tyr Thr Gln Ser Cys Arg Gln Phe Leu Tyr Gly
91          20          25          30
93   Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu Ala Cys Asp
94          35          40          45
96   Asp Ala Cys
97          50
99 (2) INFORMATION FOR SEQ ID NO: 3:
101  (i) SEQUENCE CHARACTERISTICS:
102      (A) LENGTH: 51 amino acids
103      (B) TYPE: amino acid
104      (C) STRANDEDNESS: single
105      (D) TOPOLOGY: linear
107  (ii) MOLECULE TYPE: peptide
112  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
114  Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr Ile Thr Arg
115  1          5          10          15
117  Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe Lys Tyr Gly
118          20          25          30
120  Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu Glu Cys Lys
121          35          40          45
123  Asn Ile Cys
124          50
126 (2) INFORMATION FOR SEQ ID NO: 4:
128  (i) SEQUENCE CHARACTERISTICS:
129      (A) LENGTH: 54 amino acids
130      (B) TYPE: amino acid
131      (C) STRANDEDNESS: single
132      (D) TOPOLOGY: linear
134  (ii) MOLECULE TYPE: peptide
139  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
141  Cys Arg Leu Gln Val Ser Val Asp Asp Gln Cys Glu Gly Ser Thr Glu
142  1          5          10          15
144  Lys Tyr Phe Phe Asn Leu Ser Ser Met Thr Cys Glu Lys Phe Phe Ser
145          20          25          30
147  Gly Gly Cys His Arg Asn Arg Ile Glu Asn Arg Phe Pro Asp Glu Ala
148          35          40          45
150  Thr Cys Met Gly Phe Cys
151          50

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## 153 (2) INFORMATION FOR SEQ ID NO: 5:

## 155 (i) SEQUENCE CHARACTERISTICS:

156 (A) LENGTH: 51 amino acids

157 (B) TYPE: amino acid

158 (C) STRANDEDNESS: single

159 (D) TOPOLOGY: linear

## 161 (ii) MOLECULE TYPE: peptide

## 166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

168	Cys	Leu	Thr	Pro	Ala	Asp	Arg	Gly	Leu	Cys	Arg	Ala	Asn	Glu	Asn	Arg
169	1				5				10					15		
171	Phe	Tyr	Tyr	Asn	Ser	Val	Ile	Gly	Lys	Cys	Arg	Pro	Phe	Lys	Tyr	Ser
172				20					25					30		
174	Gly	Cys	Gly	Gly	Asn	Glu	Asn	Asn	Phe	Thr	Ser	Lys	Gln	Glu	Cys	Leu
175				35				40						45		
177	Arg	Ala	Cys													
178				50												

## 180 (2) INFORMATION FOR SEQ ID NO: 6:

## 182 (i) SEQUENCE CHARACTERISTICS:

183 (A) LENGTH: 51 amino acids

184 (B) TYPE: amino acid

185 (C) STRANDEDNESS: single

186 (D) TOPOLOGY: linear

## 188 (ii) MOLECULE TYPE: peptide

## 193 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

195	Cys	Tyr	Ser	Pro	Lys	Asp	Glu	Gly	Leu	Cys	Ser	Ala	Asn	Val	Thr	Arg
196	1				5				10					15		
198	Tyr	Tyr	Phe	Asn	Pro	Arg	Tyr	Arg	Thr	Cys	Asp	Ala	Phe	Thr	Tyr	Thr
199				20					25					30		
201	Gly	Cys	Gly	Gly	Asn	Asp	Asn	Asn	Phe	Val	Ser	Arg	Glu	Asp	Cys	Lys
202				35				40						45		
204	Arg	Ala	Cys													
205				50												

## 207 (2) INFORMATION FOR SEQ ID NO: 7:

## 209 (i) SEQUENCE CHARACTERISTICS:

210 (A) LENGTH: 37 amino acids

211 (B) TYPE: amino acid

212 (C) STRANDEDNESS: single

213 (D) TOPOLOGY: linear

## 215 (ii) MOLECULE TYPE: peptide

## 220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

222	Lys	Lys	Gly	Phe	Ile	Gln	Arg	Ile	Ser	Lys	Gly	Gly	Leu	Ile	Lys	Thr
223	1				5					10				15		
225	Lys	Arg	Lys	Arg	Lys	Lys	Gln	Arg	Val	Lys	Ile	Ala	Tyr	Glu	Glu	Ile
226				20				25						30		
228	Phe	Val	Lys	Asn	Met											
229				35												

## 231 (2) INFORMATION FOR SEQ ID NO: 8:

## 233 (i) SEQUENCE CHARACTERISTICS:

234 (A) LENGTH: 27 amino acids

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235      (B) TYPE: amino acid
236      (C) STRANDEDNESS: single
237      (D) TOPOLOGY: linear
239      (ii) MOLECULE TYPE: peptide
244      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
246      Ala Lys Ala Leu Lys Lys Lys Lys Lys Met Pro Lys Leu Arg Phe Ala
247      1      5      10      15
249      Ser Arg Ile Arg Lys Ile Arg Lys Lys Gln Phe
250      20      25
252 (2) INFORMATION FOR SEQ ID NO: 9:
254      (i) SEQUENCE CHARACTERISTICS:
255          (A) LENGTH: 276 amino acids
256          (B) TYPE: amino acid
257          (C) STRANDEDNESS: single
258          (D) TOPOLOGY: linear
260      (ii) MOLECULE TYPE: peptide
265      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
267      Asp Ser Glu Glu Asp Glu Glu His Thr Ile Ile Thr Asp Thr Glu Leu
268      1      5      10      15
270      Pro Pro Leu Lys Leu Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp
271      20      25      30
273      Gly Pro Cys Arg Ala Ile Met Lys Arg Phe Phe Phe Asn Ile Phe Thr
274      35      40      45
276      Arg Gln Cys Glu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn
277      50      55      60
279      Arg Phe Glu Ser Leu Glu Glu Cys Lys Lys Met Cys Thr Arg Asp Asn
280      65      70      75      80
282      Ala Asn Arg Ile Ile Lys Thr Thr Leu Gln Gln Glu Lys Pro Asp Phe
283      85      90      95
285      Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr Ile Thr Arg
286      100      105      110
288      Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe Lys Tyr Gly
289      115      120      125
291      Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu Glu Cys Lys
292      130      135      140
294      Asn Ile Cys Glu Asp Gly Pro Asn Gly Phe Gln Val Asp Asn Tyr Gly
295      145      150      155      160
297      Thr Gln Leu Asn Ala Val Asn Asn Ser Leu Thr Pro Gln Ser Thr Lys
298      165      170      175
300      Val Pro Ser Leu Phe Glu Phe His Gly Pro Ser Trp Cys Leu Thr Pro
301      180      185      190
303      Ala Asp Arg Gly Leu Cys Arg Ala Asn Glu Asn Arg Phe Tyr Tyr Asn
304      195      200      205
306      Ser Val Ile Gly Lys Cys Arg Pro Phe Lys Tyr Ser Gly Cys Gly Gly
307      210      215      220
309      Asn Glu Asn Asn Phe Thr Ser Lys Gln Glu Cys Leu Arg Ala Cys Lys
310      225      230      235      240
312      Lys Gly Phe Ile Gln Arg Ile Ser Lys Gly Gly Leu Ile Lys Thr Lys
313      245      250      255

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315      Arg Lys Arg Lys Lys Gln Arg Val Lys Ile Ala Tyr Glu Glu Ile Phe
316                      260                      265                      270
318      Val Lys Asn Met
319                      275
321 (2) INFORMATION FOR SEQ ID NO: 10:
323      (i) SEQUENCE CHARACTERISTICS:
324          (A) LENGTH: 23 amino acids
325          (B) TYPE: amino acid
326          (C) STRANDEDNESS: single
327          (D) TOPOLOGY: linear
329      (ii) MOLECULE TYPE: peptide
334      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
336      Lys Thr Lys Arg Lys Arg Lys Lys Gln Arg Val Lys Ile Ala Tyr Glu
337      1              5              10              15
339      Glu Ile Phe Val Lys Asn Met
340                      20
342 (2) INFORMATION FOR SEQ ID NO: 11:
344      (i) SEQUENCE CHARACTERISTICS:
345          (A) LENGTH: 23 amino acids
346          (B) TYPE: amino acid
347          (C) STRANDEDNESS: single
348          (D) TOPOLOGY: linear
350      (ii) MOLECULE TYPE: peptide
355      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
357      Lys Lys Lys Lys Lys Met Pro Lys Leu Arg Phe Ala Ser Arg Ile Arg
358      1              5              10              15
360      Lys Ile Arg Lys Lys Gln Phe
361                      20
363 (2) INFORMATION FOR SEQ ID NO: 12:
365      (i) SEQUENCE CHARACTERISTICS:
366          (A) LENGTH: 17 amino acids
367          (B) TYPE: amino acid
368          (C) STRANDEDNESS: single
369          (D) TOPOLOGY: linear
371      (ii) MOLECULE TYPE: peptide
376      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
378      Ala Lys Leu Asn Cys Arg Leu Tyr Arg Lys Ala Asn Lys Ser Ser Lys
379      1              5              10              15
381      Leu
384 (2) INFORMATION FOR SEQ ID NO: 13:
386      (i) SEQUENCE CHARACTERISTICS:
387          (A) LENGTH: 15 amino acids
388          (B) TYPE: amino acid
389          (C) STRANDEDNESS: single
390          (D) TOPOLOGY: linear
392      (ii) MOLECULE TYPE: peptide
397      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
399      Thr Ser Asp Gln Ile His Phe Phe Phe Ala Lys Leu Asn Cys Arg
400      1              5              10              15

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VERIFICATION SUMMARY

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TIME: 11:30:49

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L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]